

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P574846

Luminaire Tested: **EPH-VN-06-730-U-5NQ**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P574846
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

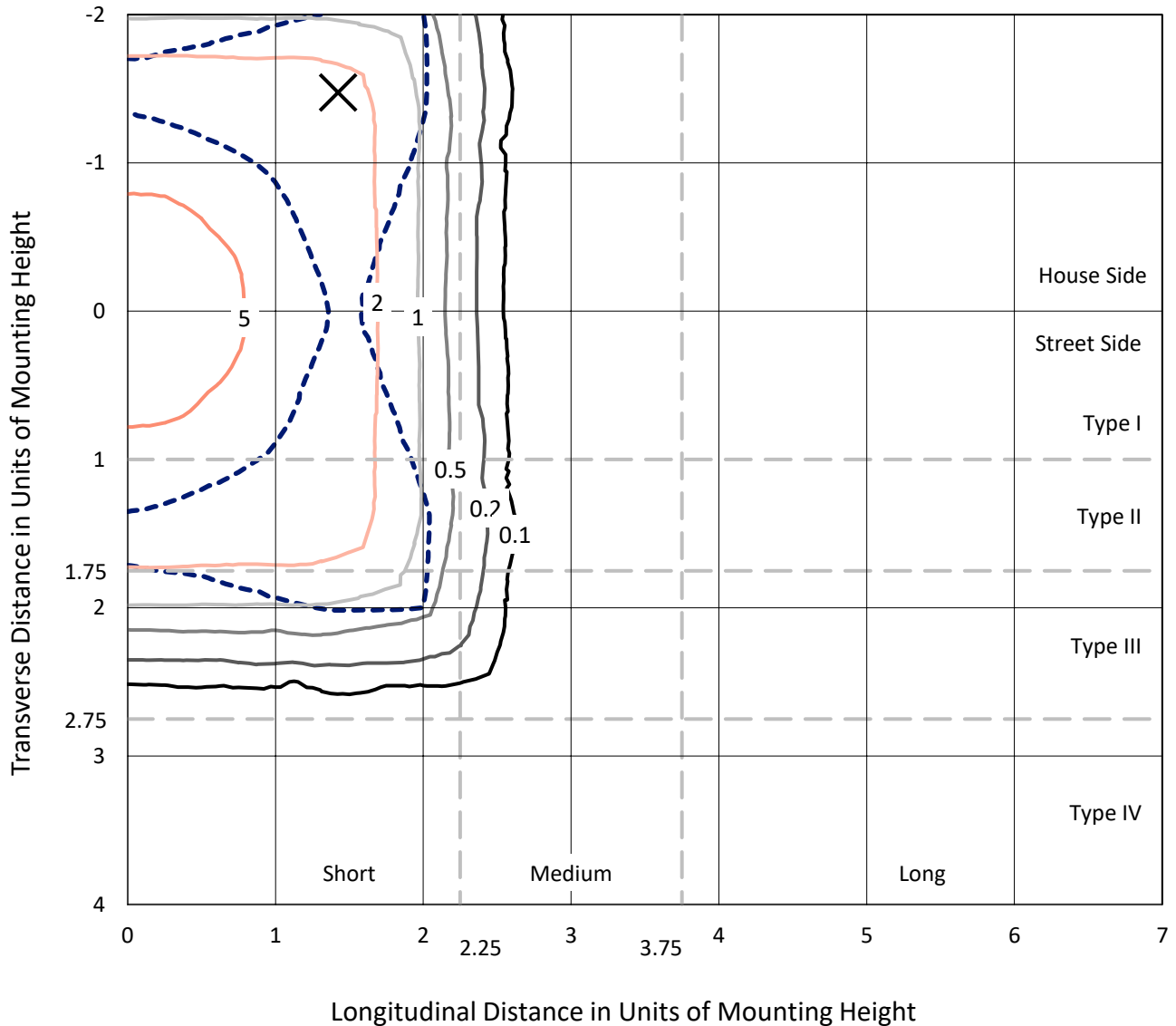
Lumens per Lamp: N/A
Luminaire Lumens: 48056 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

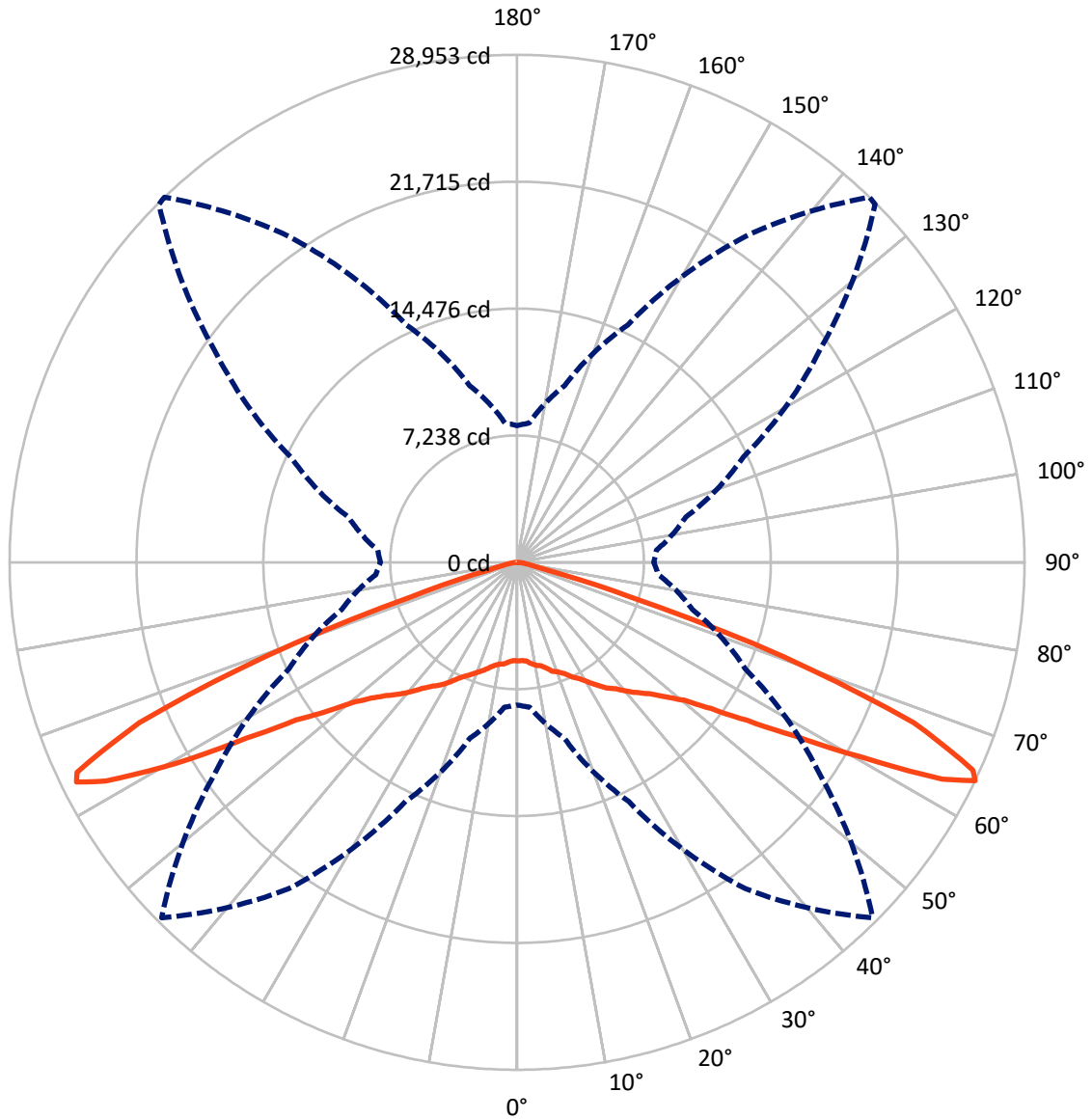
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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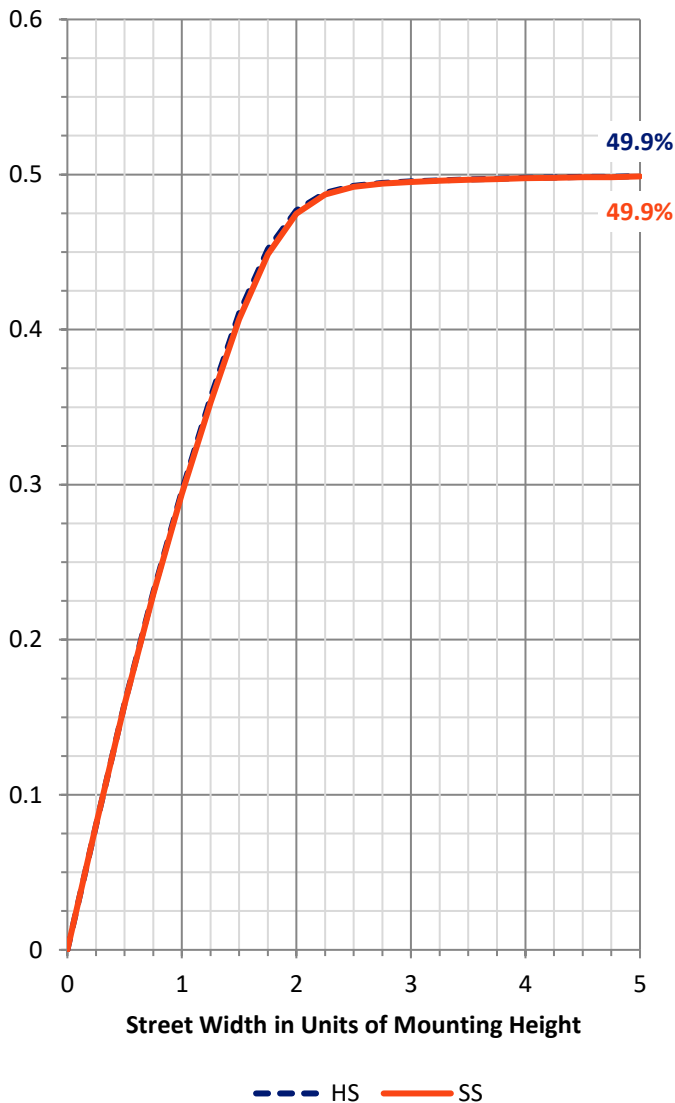
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24050.9	0.0	24050.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24005.1	0.0	24005.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	48056.0	0.0	48056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	1.2
10°-20°	1781.8	3.7
20°-30°	3348.7	7.0
30°-40°	5522.6	11.5
40°-50°	8636.9	18.0
50°-60°	13955.2	29.0
60°-70°	12565.7	26.1
70°-80°	1488.5	3.1
80°-90°	203.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48056.0	100.0
0°-180°	48056.0	100.0

Coefficient of Utilization



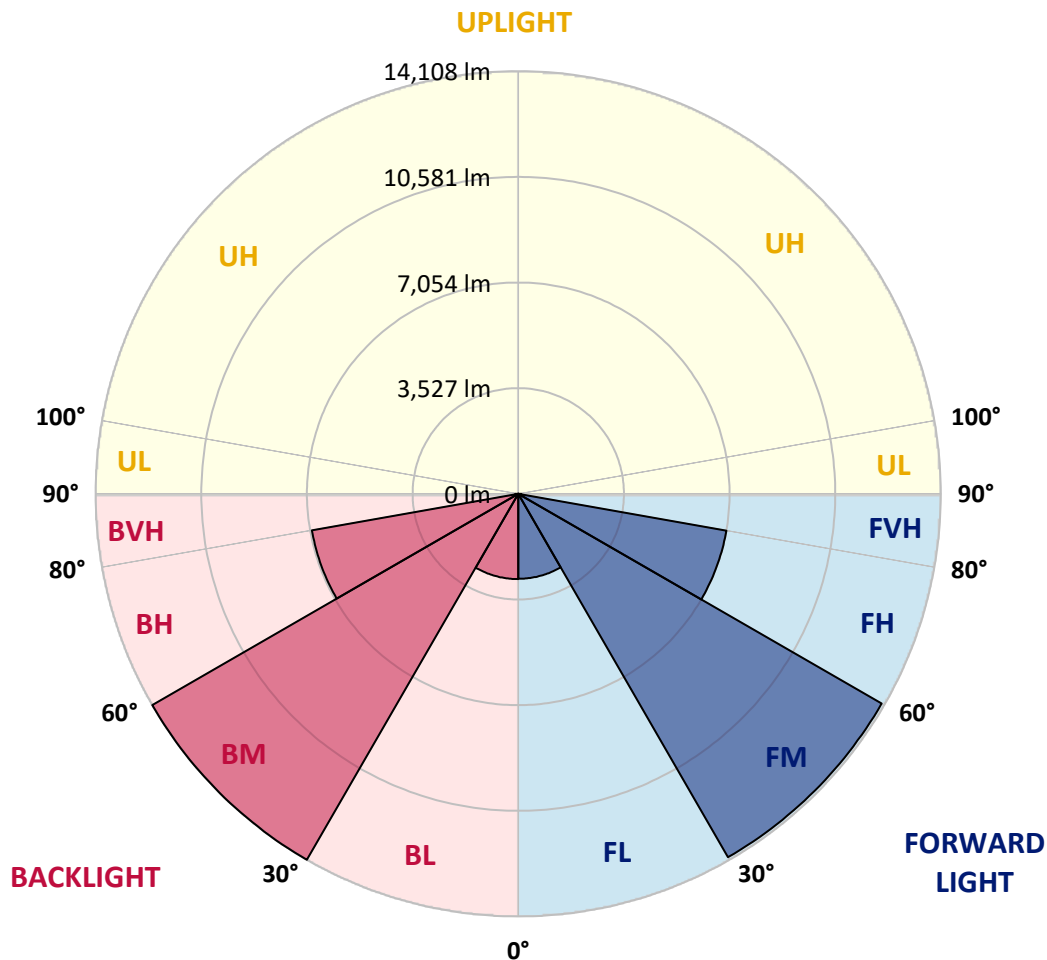
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2836.2	5.9			
FM (30°-60°)	14006.8	29.1			
FH (60°-80°)	7057.6	14.7			G3/7500
FVH (80°-90°)	104.5	0.2			G2/225
BL (0°-30°)	2847.1	5.9	B4/5000		
BM (30°-60°)	14107.9	29.4	B5		
BH (60°-80°)	6996.7	14.6	B5		G3/7500
BVH (80°-90°)	99.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4
2.5°	5560.2	5571.3	5670.5	5631.9	5664.9	5604.3	5648.4	5742.1	5631.9	5714.5
5°	5620.9	5637.4	5637.4	5676.0	5698.0	5687.0	5714.5	5676.0	5780.7	5736.6
7.5°	5841.3	5813.7	5769.6	5802.7	5808.2	5835.8	5863.3	5912.9	5896.4	5857.8
10°	5879.9	5857.8	5923.9	5929.5	5901.9	5879.9	5907.4	5907.4	5957.0	5968.0
12.5°	5946.0	5968.0	5962.5	6006.6	6012.1	5995.6	6039.7	6122.3	6100.3	6116.8
15°	6199.5	6171.9	6166.4	6210.5	6282.1	6177.4	6254.6	6249.1	6227.0	6260.1
17.5°	6419.9	6331.7	6370.3	6441.9	6414.4	6436.4	6535.6	6447.5	6469.5	6430.9
20°	6612.8	6541.1	6546.6	6574.2	6574.2	6640.3	6678.9	6645.8	6623.8	6618.3
22.5°	6827.7	6745.0	6750.5	6866.3	6904.8	6882.8	6855.2	6910.3	6921.4	6877.3
25°	6987.5	7075.7	7103.2	7158.3	7075.7	7136.3	7114.2	7218.9	7285.1	7196.9
27.5°	7406.3	7367.7	7439.4	7433.9	7500.0	7439.4	7477.9	7511.0	7538.6	7544.1
30°	7781.0	7797.6	7725.9	7918.8	7764.5	7863.7	7929.8	7946.4	7979.4	7979.4
32.5°	8177.8	8144.7	8260.5	8216.4	8188.8	8266.0	8194.3	8420.3	8288.0	8365.2
35°	8624.2	8624.2	8668.2	8789.5	8624.2	8574.6	8706.8	8800.5	8800.5	8662.7
37.5°	9125.6	9081.5	9136.7	9290.9	9164.2	8998.9	9241.4	9279.9	9252.4	9213.8
40°	9478.3	9467.3	9577.5	9781.4	9599.5	9566.5	9610.6	9715.3	9748.3	9786.9
42.5°	10073.5	10123.1	10442.7	10393.1	10244.3	10128.6	10117.5	10508.8	10415.1	10315.9
45°	10955.2	10911.1	11076.4	11081.9	10889.0	10635.5	10690.7	11048.8	11208.7	10988.2
47.5°	11655.0	11677.1	11792.8	12029.7	11583.4	11318.9	11522.8	12101.4	12051.8	11969.1
50°	12591.8	12691.0	13054.7	12972.1	12575.3	12250.2	12696.5	13242.1	13302.7	12999.6
52.5°	13886.8	14041.1	14239.5	14305.6	13925.4	13809.7	13837.2	14515.0	14366.3	14074.2
55°	15022.0	15093.7	15457.4	16002.9	15975.4	15418.8	15738.4	15991.9	15385.7	14785.1
57.5°	15507.0	15540.0	16554.0	17645.1	18295.3	18422.1	18058.4	17204.2	15760.4	14603.2
60°	14300.1	14614.2	15837.6	18300.9	21271.1	22736.9	20317.8	17342.0	14884.3	13479.0
62.5°	11429.1	11445.6	13264.1	17000.3	23122.7	26963.6	21182.9	16047.0	12547.7	10955.2
64°	8139.2	8293.5	10382.1	15049.6	22736.9	28682.9	21078.2	14355.2	10343.5	8084.1
65°	5841.3	6056.2	8073.1	13065.7	21833.2	28479.0	20764.1	12900.4	8365.2	6171.9
67.5°	2149.2	2237.3	3168.6	6535.6	15677.8	24268.9	16454.8	7092.2	3675.6	2617.6
70°	997.4	1002.9	1173.8	2160.2	6855.2	16228.9	7852.7	2661.6	1383.2	1096.6
72.5°	732.9	749.4	821.1	997.4	2016.9	6871.8	2579.0	1091.1	810.1	716.4
75°	595.1	606.2	628.2	721.9	931.3	1840.6	1047.0	755.0	644.7	578.6
77.5°	457.4	457.4	507.0	551.1	617.2	859.7	694.3	600.7	523.5	457.4
80°	330.6	336.1	396.8	429.8	418.8	567.6	501.5	496.0	429.8	358.2
82.5°	192.9	209.4	286.6	308.6	297.6	336.1	363.7	385.7	336.1	248.0
85°	110.2	115.7	165.3	170.8	170.8	159.8	209.4	231.4	225.9	154.3
87.5°	33.1	33.1	44.1	44.1	49.6	55.1	82.7	99.2	110.2	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
5626.4	0°	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4	5626.4
5742.1	2.5°	5714.5	5631.9	5637.4	5659.4	5587.8	5615.3	5698.0	5637.4	5620.9	5587.8
5802.7	5°	5687.0	5775.2	5742.1	5753.1	5736.6	5659.4	5648.4	5698.0	5725.6	5676.0
5923.9	7.5°	5879.9	5841.3	5797.2	5813.7	5775.2	5841.3	5885.4	5786.2	5835.8	5808.2
5968.0	10°	5990.1	5918.4	5951.5	5940.5	5912.9	5979.1	5935.0	5923.9	5879.9	5819.2
6078.2	12.5°	6028.6	6111.3	6166.4	6072.7	6089.3	6056.2	6028.6	6028.6	5979.1	5962.5
6171.9	15°	6199.5	6271.1	6249.1	6320.7	6227.0	6260.1	6293.2	6210.5	6254.6	6133.3
6403.4	17.5°	6513.6	6453.0	6530.1	6436.4	6469.5	6535.6	6430.9	6430.9	6464.0	6397.9
6629.3	20°	6712.0	6684.4	6656.9	6662.4	6607.3	6667.9	6634.8	6618.3	6568.7	6590.7
6926.9	22.5°	6899.3	6860.8	6871.8	6888.3	6926.9	6899.3	6882.8	6899.3	6778.1	6888.3
7257.5	25°	7130.8	7235.5	7202.4	7274.1	7163.8	7235.5	7230.0	7125.3	7191.4	7147.3
7516.5	27.5°	7516.5	7461.4	7511.0	7422.8	7500.0	7505.5	7439.4	7615.7	7538.6	7527.5
7896.8	30°	8012.5	7973.9	7940.8	7891.2	7951.9	7902.3	7957.4	7973.9	7902.3	7847.2
8271.5	32.5°	8293.5	8398.2	8436.8	8315.6	8321.1	8348.6	8299.0	8249.4	8293.5	8310.1
8695.8	35°	8690.3	8789.5	8811.5	8717.8	8668.2	8806.0	8706.8	8872.1	8728.9	8734.4
9147.7	37.5°	9153.2	9180.7	9368.1	9263.4	9219.3	9153.2	9335.0	9313.0	9346.1	9081.5
9698.7	40°	9676.7	9775.9	9880.6	9616.1	9610.6	9671.2	9660.2	9786.9	9726.3	9687.7
10266.3	42.5°	10249.8	10459.2	10475.7	10299.4	10189.2	10178.2	10233.3	10514.3	10519.8	10266.3
11070.9	45°	11010.3	11241.7	11181.1	10839.4	10718.2	10701.7	10971.7	11092.9	11197.6	11098.4
12046.3	47.5°	11958.1	12112.4	12068.3	11754.2	11363.0	11473.2	11737.7	12117.9	12007.7	11875.4
12944.5	50°	12972.1	13153.9	13060.2	12746.1	12371.4	12371.4	12696.5	13181.5	13148.4	12889.4
13886.8	52.5°	14096.2	14360.7	14575.7	14129.3	13815.2	13864.8	14377.3	14553.6	14471.0	14289.1
14834.7	55°	14933.8	15440.8	15881.7	15903.7	15920.3	15914.7	16047.0	16223.3	15633.7	15341.6
14531.6	57.5°	14730.0	15688.8	17198.7	18223.7	18526.8	18686.6	18642.5	17826.9	16432.7	15473.9
13374.3	60°	13275.1	14840.2	17275.9	20565.7	22770.0	22549.6	21745.0	18521.3	15991.9	14371.8
10536.4	62.5°	10591.5	12476.1	15980.9	21227.0	27299.7	27233.6	23023.5	16917.7	13324.7	11274.8
7792.1	64°	7979.4	9963.2	14256.0	21056.2	28886.8	28952.9	22698.3	14944.9	10426.1	7979.4
5874.3	65°	6105.8	7946.4	12564.3	20703.5	28545.1	28583.7	21794.6	12905.9	7924.3	5664.9
2353.0	67.5°	2430.2	3383.5	6816.7	15699.8	24511.4	24406.6	15551.0	6243.6	3030.9	1972.8
1019.5	70°	1036.0	1289.5	2391.6	7439.4	16410.7	16107.6	6695.4	2027.9	1124.2	942.3
699.9	72.5°	710.9	788.0	1025.0	2297.9	6822.2	6662.4	1906.7	942.3	766.0	705.4
556.6	75°	573.1	628.2	743.9	964.4	1807.5	1741.4	898.2	694.3	611.7	567.6
440.9	77.5°	446.4	501.5	584.1	666.8	826.6	821.1	600.7	523.5	473.9	440.9
330.6	80°	352.7	407.8	462.9	473.9	540.0	529.0	407.8	413.3	385.7	319.6
225.9	82.5°	242.5	330.6	369.2	336.1	319.6	319.6	292.1	292.1	270.0	198.4
137.8	85°	148.8	220.4	231.4	198.4	148.8	148.8	159.8	154.3	143.3	104.7
71.6	87.5°	77.1	104.7	93.7	77.1	49.6	49.6	44.1	33.1	33.1	27.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°
5626.4
5571.3
5775.2
5753.1
5907.4
5979.1
6227.0
6315.2
6634.8
6734.0
7114.2
7505.5
7742.5
8293.5
8585.6
9213.8
9594.0
10156.1
11004.8
11765.2
12790.2
14206.4
15044.1
15573.1
14167.9
11148.0
7786.5
5455.5
1934.2
936.8
705.4
562.1
429.8
314.1
181.9
99.2
27.6
0.0

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